SUBJECT INDEX

Aerodynamics

Estimates of Skew Wind Speeds for Bridge Flutter, Robert H. Scanlan, BE May 99, p95-98.

Flutter and Buffeting Analysis. I: Finite-Element and RPE Solution, Chun S. Cai, Pedro Albrecht and Harold R. Bosch, BE Aug. 99, p174-180.

Flutter and Buffeting Analysis. II: Luling and Deer Isle Bridges, Chun S. Cai, Pedro Albrecht and Harold R. Bosch, BE Aug. 99, p181-188.

Age factors

Investigation of Cracking in Concrete Bridge Decks at Early Ages, Mohsen A. Issa, P.E., BE May 99, p116-124.

Analysis

Horizontally Curved Steel I-Girders State-of-the-Art Analysis Methods, A. Zureick and R. Naqib, BE Feb. 99, p38-47.

Analytical techniques

Analytical Model of Curved I-Girder Web Panels Subjected to Bending, James S. Davidson, Scott R. Ballance and Chai H. Yoo, BE Aug. 99, p204-212.

Finite Displacement Behavior of Curved I-Girder Webs Subjected to Bending, James S. Davidson, Scott R. Ballance and Chai H. Yoo, BE Aug. 99, p213-220.

Anchors

Self-Anchored Suspension Bridges, John A. Ochsendorf and David P. Billington, BE Aug. 99, p151-156.

Automation

Automated Data Acquisition for Bridge Inspection, Hazem M. Elzarka, Lansford C. Bell and Richard L. Floyd, BE Nov. 99, p258-262.

Axial forces

Number of Cable Effects on Buckling Analysis of Cable-Stayed Bridges, Yang-Cheng Wang, BE Nov. 99, p242-248.

Beams

Partial Composite Action in Hardwood Glued-Laminated T-Beams, Ray W. Witmer, Jr., Harvey B. Manbeck and John J. Janowiak, BE Feb. 99, p23-29.

Practitioners' Forum, Muthiah Kasi and Harold R. Sandberg, BE Aug. 97, p70-72.

Strengthening by Means of External Prestressing, M. A. Pisani, BE May 99, p131-135.

Bearing capacity

Ultimate Behavior of Long-Span Cable-Stayed Bridges, Wei-Xin Ren, BE Feb. 99, p30-37.

Ultimate Load Capacity of Cable-Stayed Bridges, Ying Xi and J. S. Kuang, BE Feb. 99, p14-22.

Bearing design

Wrinkled Membranes and Cable-Stayed Bridges, Gianni F. Royer-Carfagni, BE Feb. 99, p56-62.

Bending

Analytical Model of Curved I-Girder Web Panels Subjected to Bending, James S. Davidson, Scott R. Ballance and Chai H. Yoo, BE Aug. 99, p204-212.

Finite Displacement Behavior of Curved I-Girder Webs Subjected to Bending, James S. Davidson, Scott R. Ballance and Chai H. Yoo, BE Aug. 99, p213-220.

Bracing

Simply Supported Curved Composite Cellular Bridges: Simplified Design Method, Khaled Sennah and John B. Kennedy, BE May 99, p85-94.

Bridge abutments

Deck Slab Stresses in Integral Abutment Bridges, Shehab Mourad and Sami W. Tabsh, BE May 99, p125-130.

Bridge construction

Nonlinear Analysis and Simulation of Construction of Cable-Stayed Bridges, Praveen Reddy, Jamshid Ghaboussi and Neil M. Hawkins, BE Nov. 99, p249-257.

Prestressing Schemes for Incrementally Launched Bridges, Marco Rosignoli, BE May 99, p107-115.

Bridge decks

Cumulative Damage to Bridge Concrete Deck Slabs Due to Vehicle Loading, Thomas E. Boothby and Jeffrey A. Laman, BE Feb. 99, p80-82.

Deck Slab Stresses in Integral Abutment Bridges, Shehab Mourad and Sami W. Tabsh, BE May 99, p125-130.

Effect of Material Properties on Cracking in Bridge Decks, Tony R. Schmitt and David Darwin, BE Feb. 99, p8-13.

Influence of Deck Material on Response of Cable-Stayed Bridges to Live Loads, Hany W. George, BE May 99, p136-142.

Investigation of Cracking in Concrete Bridge Decks at Early Ages, Mohsen A. Issa, P.E., BE May 99, p116-124.

Number of Cable Effects on Buckling Analysis of Cable-Stayed Bridges, Yang-Cheng Wang, BE Nov. 99, p242-248.

Bridge design

Partial Composite Action in Hardwood Glued-Laminated T-Beams, Ray W. Witmer, Jr., Harvey B. Manbeck and John J. Janowiak, BE Feb. 99, p23-29.

Self-Anchored Suspension Bridges, John A. Ochsendorf and David P. Billington, BE Aug. 99, p151-156.

Bridge failure

Cable Safety Factors for Four Suspension Bridges, Roger Q. Haight, David P. Billington and Dyab Khazem, BE Nov. 97, p157-167.

Short-Term Strain Monitoring of Bridge Structures, Richard R. Sartor, Michael P. Culmo, P.E. and John T. DeWolf, P.E., BE Aug. 99, p157-164.

Bridge inspection

Automated Data Acquisition for Bridge Inspection, Hazem M. Elzarka, Lansford C. Bell and Richard L. Floyd, BE Nov. 99, p258-262.

Short-Term Strain Monitoring of Bridge Structures, Richard R. Sartor, Michael P. Culmo, P.E. and John T. DeWolf, P.E., BE Aug. 99, p157-164.

Bridge maintenance

Strengthening by Means of External Prestressing, M. A. Pisani, BE May 99, p131-135.

Bridge tests

Determination of Slab Participation from Weigh-In-Motion Bridge Testing, Maged Elhelbawey, Chung C. Fu, M. A. Sahin and David R. Schelling, BE Aug. 99, p165-173.

Load Distribution of Existing Solid Slab Bridges Based on Field Tests, A. Amer, M. Arockiasamy and M. Shahawy, BE Aug. 99, p189-193.

Bridges

Analytical Evaluation of Retrofit Strategies for Multicolumn Bridges, Yi Zhang, William F. Cofer and David I. McLean, BE May 99, p143-150.

Bridges, box girder

Load Distribution Factors for Composite Multicell Box Girder Bridges, Khaled M. Sennah and John B. Kennedy, BE Feb. 99, p71-78.

Simply Supported Curved Composite Cellular Bridges: Simplified Design Method, Khaled Sennah and John B. Kennedy, BE May 99, p85-94.

Bridges, cable-stayed

Elastic-Plastic Seismic Behaviors of Long Span Cable-Stayed Bridges, Wei-Xin Ren and Makoto Obata, BE Aug. 99, p194-203.

Influence of Deck Material on Response of Cable-Stayed Bridges to Live Loads, Hany W. George, BE May 99, p136-142.

Nonlinear Analysis and Simulation of Construction of Cable-Stayed Bridges, Praveen Reddy, Jamshid Ghaboussi and Neil M. Hawkins, BE Nov. 99, p249-257.

Number of Cable Effects on Buckling Analysis of Cable-Stayed Bridges, Yang-Cheng Wang, BE Nov. 99, p242-248.

Ultimate Behavior of Long-Span Cable-Stayed Bridges, Wei-Xin Ren, BE Feb. 99, p30-37.

Ultimate Load Capacity of Cable-Stayed Bridges, Ying Xi and J. S. Kuang, BE Feb. 99, p14-22.

Validated Analysis of Wheeling Suspension Bridge, Constantine C. Spyrakos, Emory L. Kemp and Ramesh Venkatareddy, BE Feb. 99, p1-7.

Wrinkled Membranes and Cable-Stayed Bridges, Gianni F. Royer-Carfagni, BE Feb. 99, p56-62.

Bridges, composite

Shear and Reaction Distributions in Continuous Skew Composite Bridges, Tarek Ebeido and John B. Kennedy, BE Nov. 96, p155-165.

Bridges, concrete

Prestressing Schemes for Incrementally Launched Bridges, Marco Rosignoli, BE May 99, p107-115.

Serviceability Design of Prestressed Concrete Bridges, André Picard and Bruno Massicotte, BE Feb. 99, p48-55.

Bridges, continuous

Effect of Multilanes on Wheel Load Distribution in Steel Girder Bridges, Mounir E. Mabsout, Kassim M. Tarhini, Gerald R. Frederick and Abbas Kesserwan, BE May 99, p99-106.

Bridges, girder

Determination of Slab Participation from Weigh-In-Motion Bridge Testing, Maged Elhelbawey, Chung C. Fu, M. A. Sahin and David R. Schelling, BE Aug. 99, p165-173.

Effect of Multilanes on Wheel Load Distribution in Steel Girder Bridges, Mounir E. Mabsout, Kassim M. Tarhini, Gerald R. Frederick and Abbas Kesserwan, BE May 99, p99-106.

Horizontally Curved Steel I-Girders State-of-the-Art Analysis Methods, A. Zureick and R. Naqib, BE Feb. 99, p38-47.

Load Distribution and Impact Factors for I-Girder Bridges, Sangjin Kim and Andrzej S. Nowak, BE Aug. 97, p97-104.

Removal of Diaphragms from Three Span–Steel Girder Bridge, J. M. Stallings, T. E. Cousins and T. E. Stafford, BE Feb. 99, p63-70.

Bridges, highway

Effect of Multilanes on Wheel Load Distribution in Steel Girder Bridges, Mounir E. Mabsout, Kassim M. Tarhini, Gerald R. Frederick and Abbas Kesserwan, BE May 99, p99-106.

Innovative Method for Evaluating Overweight Vehicle Permits, Karen C. Chou, James H. Deatherage, Terry D. Leatherwood and Amjad J. Khayat, BE Aug. 99, p221-227.

Load Distribution of Existing Solid Slab Bridges Based on Field Tests, A. Amer, M. Arockiasamy and M. Shahawy, BE Aug. 99, p189-193.

Bridges, railroad

Performance of Bridge Timber Ties under Static and Fatigue Loading, Khaled A. Soudki, Sami H. Rizkalla and A. Shakoor Uppal, BE Nov. 99, p263-268.

Bridges, spans

Estimates of Skew Wind Speeds for Bridge Flutter, Robert H. Scanlan, BE May 99, p95-98.

Flutter and Buffeting Analysis. I: Finite-Element and RPE Solution, Chun S. Cai, Pedro Albrecht and Harold R. Bosch, BE Aug. 99, p174-180.

Flutter and Buffeting Analysis. II: Luling and Deer Isle Bridges, Chun S. Cai, Pedro Albrecht and Harold R. Bosch, BE Aug. 99, p181-188.

Bridges, suspension

Cable Safety Factors for Four Suspension Bridges, Roger Q. Haight, David P. Billington and Dyab Khazem, BE Nov. 97, p157-167.

Self-Anchored Suspension Bridges, John A. Ochsendorf and David P. Billington, BE Aug. 99, p151-156.

Validated Analysis of Wheeling Suspension Bridge, Constantine C. Spyrakos, Emory L. Kemp and Ramesh Venkatareddy, BE Feb. 99, p1-7.

Bridges, truss

Dynamic Load Allowance for Through-Truss Bridges, J. A. Laman, J. S. Pechar and T. E. Boothby, BE Nov. 99, p231-241.

Bridges, wooden

Field Performance of Three Stress-Laminated Southern Pine Timber Bridges, Nur Yazdani, P.E., Joy Kadner, P.E., James A. Kainz and Michael A. Ritter, BE Nov. 99, p279-286.

Northern Red Oak Glued-Laminated Timber Bridge, Harvey B. Manbeck, Paul R. Blankenhorn, John J. Janowiak, Ray W. Witmer, Jr., Peter Labosky, Jr., Patrick S. Powers and Perry D. Schram, BE Nov. 99, p269-278.

Brittleness

Cable Safety Factors for Four Suspension Bridges, Roger Q. Haight, David P. Billington and Dyab Khazem, BE Nov. 97, p157-167.

SUBJECT INDEX

Aerodynamics

Estimates of Skew Wind Speeds for Bridge Flutter, Robert H. Scanlan, BE May 99, p95-98.

Flutter and Buffeting Analysis. I: Finite-Element and RPE Solution, Chun S. Cai, Pedro Albrecht and Harold R. Bosch, BE Aug. 99, p174-180.

Flutter and Buffeting Analysis. II: Luling and Deer Isle Bridges, Chun S. Cai, Pedro Albrecht and Harold R. Bosch, BE Aug. 99, p181-188.

Age factors

Investigation of Cracking in Concrete Bridge Decks at Early Ages, Mohsen A. Issa, P.E., BE May 99, p116-124.

Analysis

Horizontally Curved Steel I-Girders State-of-the-Art Analysis Methods, A. Zureick and R. Naqib, BE Feb. 99, p38-47.

Analytical techniques

Analytical Model of Curved I-Girder Web Panels Subjected to Bending, James S. Davidson, Scott R. Ballance and Chai H. Yoo, BE Aug. 99, p204-212.

Finite Displacement Behavior of Curved I-Girder Webs Subjected to Bending, James S. Davidson, Scott R. Ballance and Chai H. Yoo, BE Aug. 99, p213-220.

Anchors

Self-Anchored Suspension Bridges, John A. Ochsendorf and David P. Billington, BE Aug. 99, p151-156.

Automation

Automated Data Acquisition for Bridge Inspection, Hazem M. Elzarka, Lansford C. Bell and Richard L. Floyd, BE Nov. 99, p258-262.

Axial forces

Number of Cable Effects on Buckling Analysis of Cable-Stayed Bridges, Yang-Cheng Wang, BE Nov. 99, p242-248.

Beams

Partial Composite Action in Hardwood Glued-Laminated T-Beams, Ray W. Witmer, Jr., Harvey B. Manbeck and John J. Janowiak, BE Feb. 99, p23-29.

Practitioners' Forum, Muthiah Kasi and Harold R. Sandberg, BE Aug. 97, p70-72.

Strengthening by Means of External Prestressing, M. A. Pisani, BE May 99, p131-135.

Bearing capacity

Ultimate Behavior of Long-Span Cable-Stayed Bridges, Wei-Xin Ren, BE Feb. 99, p30-37.

Ultimate Load Capacity of Cable-Stayed Bridges, Ying Xi and J. S. Kuang, BE Feb. 99, p14-22.

Bearing design

Wrinkled Membranes and Cable-Stayed Bridges, Gianni F. Royer-Carfagni, BE Feb. 99, p56-62.

Bending

Analytical Model of Curved I-Girder Web Panels Subjected to Bending, James S. Davidson, Scott R. Ballance and Chai H. Yoo, BE Aug. 99, p204-212.

Finite Displacement Behavior of Curved I-Girder Webs Subjected to Bending, James S. Davidson, Scott R. Ballance and Chai H. Yoo, BE Aug. 99, p213-220.

Bracing

Simply Supported Curved Composite Cellular Bridges: Simplified Design Method, Khaled Sennah and John B. Kennedy, BE May 99, p85-94.

Bridge abutments

Deck Slab Stresses in Integral Abutment Bridges, Shehab Mourad and Sami W. Tabsh, BE May 99, p125-130.

Bridge construction

Nonlinear Analysis and Simulation of Construction of Cable-Stayed Bridges, Praveen Reddy, Jamshid Ghaboussi and Neil M. Hawkins, BE Nov. 99, p249-257.

Prestressing Schemes for Incrementally Launched Bridges, Marco Rosignoli, BE May 99, p107-115.

Bridge decks

Cumulative Damage to Bridge Concrete Deck Slabs Due to Vehicle Loading, Thomas E. Boothby and Jeffrey A. Laman, BE Feb. 99, p80-82.

Deck Slab Stresses in Integral Abutment Bridges, Shehab Mourad and Sami W. Tabsh, BE May 99, p125-130.

Effect of Material Properties on Cracking in Bridge Decks, Tony R. Schmitt and David Darwin, BE Feb. 99, p8-13.

Influence of Deck Material on Response of Cable-Stayed Bridges to Live Loads, Hany W. George, BE May 99, p136-142.

Investigation of Cracking in Concrete Bridge Decks at Early Ages, Mohsen A. Issa, P.E., BE May 99, p116-124.

Number of Cable Effects on Buckling Analysis of Cable-Stayed Bridges, Yang-Cheng Wang, BE Nov. 99, p242-248.

Bridge design

Partial Composite Action in Hardwood Glued-Laminated T-Beams, Ray W. Witmer, Jr., Harvey B. Manbeck and John J. Janowiak, BE Feb. 99, p23-29.

Self-Anchored Suspension Bridges, John A. Ochsendorf and David P. Billington, BE Aug. 99, p151-156.

Bridge failure

Cable Safety Factors for Four Suspension Bridges, Roger Q. Haight, David P. Billington and Dyab Khazem, BE Nov. 97, p157-167.

Short-Term Strain Monitoring of Bridge Structures, Richard R. Sartor, Michael P. Culmo, P.E. and John T. DeWolf, P.E., BE Aug. 99, p157-164.

Bridge inspection

Automated Data Acquisition for Bridge Inspection, Hazem M. Elzarka, Lansford C. Bell and Richard L. Floyd, BE Nov. 99, p258-262.

Short-Term Strain Monitoring of Bridge Structures, Richard R. Sartor, Michael P. Culmo, P.E. and John T. DeWolf, P.E., BE Aug. 99, p157-164.

Bridge maintenance

Strengthening by Means of External Prestressing, M. A. Pisani, BE May 99, p131-135.

Bridge tests

Determination of Slab Participation from Weigh-In-Motion Bridge Testing, Maged Elhelbawey, Chung C. Fu, M. A. Sahin and David R. Schelling, BE Aug. 99, p165-173.

Load Distribution of Existing Solid Slab Bridges Based on Field Tests, A. Amer, M. Arockiasamy and M. Shahawy, BE Aug. 99, p189-193.

Bridges

Analytical Evaluation of Retrofit Strategies for Multicolumn Bridges, Yi Zhang, William F. Cofer and David I. McLean, BE May 99, p143-150.

Bridges, box girder

Load Distribution Factors for Composite Multicell Box Girder Bridges, Khaled M. Sennah and John B. Kennedy, BE Feb. 99, p71-78.

Simply Supported Curved Composite Cellular Bridges: Simplified Design Method, Khaled Sennah and John B. Kennedy, BE May 99, p85-94.

Bridges, cable-stayed

Elastic-Plastic Seismic Behaviors of Long Span Cable-Stayed Bridges, Wei-Xin Ren and Makoto Obata, BE Aug. 99, p194-203.

Influence of Deck Material on Response of Cable-Stayed Bridges to Live Loads, Hany W. George, BE May 99, p136-142.

Nonlinear Analysis and Simulation of Construction of Cable-Stayed Bridges, Praveen Reddy, Jamshid Ghaboussi and Neil M. Hawkins, BE Nov. 99, p249-257.

Number of Cable Effects on Buckling Analysis of Cable-Stayed Bridges, Yang-Cheng Wang, BE Nov. 99, p242-248.

Ultimate Behavior of Long-Span Cable-Stayed Bridges, Wei-Xin Ren, BE Feb. 99, p30-37.

Ultimate Load Capacity of Cable-Stayed Bridges, Ying Xi and J. S. Kuang, BE Feb. 99, p14-22.

Validated Analysis of Wheeling Suspension Bridge, Constantine C. Spyrakos, Emory L. Kemp and Ramesh Venkatareddy, BE Feb. 99, p1-7.

Wrinkled Membranes and Cable-Stayed Bridges, Gianni F. Royer-Carfagni, BE Feb. 99, p56-62.

Bridges, composite

Shear and Reaction Distributions in Continuous Skew Composite Bridges, Tarek Ebeido and John B. Kennedy, BE Nov. 96, p155-165.

Bridges, concrete

Prestressing Schemes for Incrementally Launched Bridges, Marco Rosignoli, BE May 99, p107-115.

Serviceability Design of Prestressed Concrete Bridges, André Picard and Bruno Massicotte, BE Feb. 99, p48-55.

Bridges, continuous

Effect of Multilanes on Wheel Load Distribution in Steel Girder Bridges, Mounir E. Mabsout, Kassim M. Tarhini, Gerald R. Frederick and Abbas Kesserwan, BE May 99, p99-106.

Bridges, girder

Determination of Slab Participation from Weigh-In-Motion Bridge Testing, Maged Elhelbawey, Chung C. Fu, M. A. Sahin and David R. Schelling, BE Aug. 99, p165-173.

Effect of Multilanes on Wheel Load Distribution in Steel Girder Bridges, Mounir E. Mabsout, Kassim M. Tarhini, Gerald R. Frederick and Abbas Kesserwan, BE May 99, p99-106.

Horizontally Curved Steel I-Girders State-of-the-Art Analysis Methods, A. Zureick and R. Naqib, BE Feb. 99, p38-47.

Load Distribution and Impact Factors for I-Girder Bridges, Sangjin Kim and Andrzej S. Nowak, BE Aug. 97, p97-104.

Removal of Diaphragms from Three Span–Steel Girder Bridge, J. M. Stallings, T. E. Cousins and T. E. Stafford, BE Feb. 99, p63-70.

Bridges, highway

Effect of Multilanes on Wheel Load Distribution in Steel Girder Bridges, Mounir E. Mabsout, Kassim M. Tarhini, Gerald R. Frederick and Abbas Kesserwan, BE May 99, p99-106.

Innovative Method for Evaluating Overweight Vehicle Permits, Karen C. Chou, James H. Deatherage, Terry D. Leatherwood and Amjad J. Khayat, BE Aug. 99, p221-227.

Load Distribution of Existing Solid Slab Bridges Based on Field Tests, A. Amer, M. Arockiasamy and M. Shahawy, BE Aug. 99, p189-193.

Bridges, railroad

Performance of Bridge Timber Ties under Static and Fatigue Loading, Khaled A. Soudki, Sami H. Rizkalla and A. Shakoor Uppal, BE Nov. 99, p263-268.

Bridges, spans

Estimates of Skew Wind Speeds for Bridge Flutter, Robert H. Scanlan, BE May 99, p95-98.

Flutter and Buffeting Analysis. I: Finite-Element and RPE Solution, Chun S. Cai, Pedro Albrecht and Harold R. Bosch, BE Aug. 99, p174-180.

Flutter and Buffeting Analysis. II: Luling and Deer Isle Bridges, Chun S. Cai, Pedro Albrecht and Harold R. Bosch, BE Aug. 99, p181-188.

Bridges, suspension

Cable Safety Factors for Four Suspension Bridges, Roger Q. Haight, David P. Billington and Dyab Khazem, BE Nov. 97, p157-167.

Self-Anchored Suspension Bridges, John A. Ochsendorf and David P. Billington, BE Aug. 99, p151-156.

Validated Analysis of Wheeling Suspension Bridge, Constantine C. Spyrakos, Emory L. Kemp and Ramesh Venkatareddy, BE Feb. 99, p1-7.

Bridges, truss

Dynamic Load Allowance for Through-Truss Bridges, J. A. Laman, J. S. Pechar and T. E. Boothby, BE Nov. 99, p231-241.

Bridges, wooden

Field Performance of Three Stress-Laminated Southern Pine Timber Bridges, Nur Yazdani, P.E., Joy Kadner, P.E., James A. Kainz and Michael A. Ritter, BE Nov. 99, p279-286.

Northern Red Oak Glued-Laminated Timber Bridge, Harvey B. Manbeck, Paul R. Blankenhorn, John J. Janowiak, Ray W. Witmer, Jr., Peter Labosky, Jr., Patrick S. Powers and Perry D. Schram, BE Nov. 99, p269-278.

Brittleness

Cable Safety Factors for Four Suspension Bridges, Roger Q. Haight, David P. Billington and Dyab Khazem, BE Nov. 97, p157-167.

Buckling

Number of Cable Effects on Buckling Analysis of Cable-Stayed Bridges, Yang-Cheng Wang, BE Nov. 99, p242-248.

Ultimate Behavior of Long-Span Cable-Stayed Bridges, Wei-Xin Ren, BE Feb. 99, p30-37.

Buffeting

Flutter and Buffeting Analysis. I: Finite-Element and RPE Solution, Chun S. Cai, Pedro Albrecht and Harold R. Bosch, BE Aug. 99, p174-180.

Flutter and Buffeting Analysis. II: Luling and Deer Isle Bridges, Chun S. Cai, Pedro Albrecht and Harold R. Bosch, BE Aug. 99, p181-188.

Building codes

Shear and Reaction Distributions in Continuous Skew Composite Bridges, Tarek Ebeido and John B. Kennedy, BE Nov. 96, p155-165.

Cables

Cable Safety Factors for Four Suspension Bridges, Roger Q. Haight, David P. Billington and Dyab Khazem, BE Nov. 97, p157-167.

Number of Cable Effects on Buckling Analysis of Cable-Stayed Bridges, Yang-Cheng Wang, BE Nov. 99, p242-248.

Wrinkled Membranes and Cable-Stayed Bridges, Gianni F. Royer-Carfagni, BE Feb. 99, p56-62.

Case reports

Self-Anchored Suspension Bridges, John A. Ochsendorf and David P. Billington, BE Aug. 99, p151-156.

Cellular structures

Load Distribution Factors for Composite Multicell Box Girder Bridges, Khaled M. Sennah and John B. Kennedy, BE Feb. 99, p71-78.

Simply Supported Curved Composite Cellular Bridges: Simplified Design Method, Khaled Sennah and John B. Kennedy, BE May 99, p85-94.

Columns

Analytical Evaluation of Retrofit Strategies for Multicolumn Bridges, Yi Zhang, William F. Cofer and David I. McLean, BE May 99, p143-150.

Composite beams

Deck Slab Stresses in Integral Abutment Bridges, Shehab Mourad and Sami W. Tabsh, BE May 99, p125-130.

Composite materials

Influence of Deck Material on Response of Cable-Stayed Bridges to Live Loads, Hany W. George, BE May 99, p136-142.

Composite structures

Determination of Slab Participation from Weigh-In-Motion Bridge Testing, Maged Elhelbawey, Chung C. Fu, M. A. Sahin and David R. Schelling, BE Aug. 99, p165-173.

Load Distribution Factors for Composite Multicell Box Girder Bridges, Khaled M. Sennah and John B. Kennedy, BE Feb. 99, p71-78.

Partial Composite Action in Hardwood Glued-Laminated T-Beams, Ray W. Witmer, Jr., Harvey B. Manbeck and John J. Janowiak, BE Feb. 99, p23-29.

Simply Supported Curved Composite Cellular Bridges: Simplified Design Method, Khaled Sennah and John B. Kennedy, BE May 99, p85-94.

Concrete

Effect of Material Properties on Cracking in Bridge Decks, Tony R. Schmitt and David Darwin, BE Feb. 99, p8-13.

Concrete, prestressed

Serviceability Design of Prestressed Concrete Bridges, André Picard and Bruno Massicotte, BE Feb. 99, p48-55.

Strengthening by Means of External Prestressing, M. A. Pisani, BE May 99, p131-135.

Concrete, reinforced

Investigation of Cracking in Concrete Bridge Decks at Early Ages, Mohsen A. Issa, P.E., BE May 99, p116-124.

Strengthening by Means of External Prestressing, M. A. Pisani, BE May 99, p131-135.

Concrete slabs

Cumulative Damage to Bridge Concrete Deck Slabs Due to Vehicle Loading, Thomas E. Boothby and Jeffrey A. Laman, BE Feb. 99, p80-82.

Deck Slab Stresses in Integral Abutment Bridges, Shehab Mourad and Sami W. Tabsh, BE May 99, p125-130.

Concrete structures

Influence of Deck Material on Response of Cable-Stayed Bridges to Live Loads, Hany W. George, BE May 99, p136-142.

Construction planning

Nonlinear Analysis and Simulation of Construction of Cable-Stayed Bridges, Praveen Reddy, Jamshid Ghaboussi and Neil M. Hawkins, BE Nov. 99, p249-257.

Continuous structures

Shear and Reaction Distributions in Continuous Skew Composite Bridges, Tarek Ebeido and John B. Kennedy, BE Nov. 96, p155-165.

Cracking

Effect of Material Properties on Cracking in Bridge Decks, Tony R. Schmitt and David Darwin, BE Feb. 99, p8-13.

Investigation of Cracking in Concrete Bridge Decks at Early Ages, Mohsen A. Issa, P.E., BE May 99, p116-124.

Curvature

Analytical Model of Curved I-Girder Web Panels Subjected to Bending, James S. Davidson, Scott R. Ballance and Chai H. Yoo, BE Aug. 99, p204-212.

Finite Displacement Behavior of Curved I-Girder Webs Subjected to Bending, James S. Davidson, Scott R. Ballance and Chai H. Yoo, BE Aug. 99, p213-220.

Horizontally Curved Steel I-Girders State-of-the-Art Analysis Methods, A. Zureick and R. Naqib, BE Feb. 99, p38-47.

Cyclic loads

Strengthening by Means of External Prestressing, M. A. Pisani, BE May 99, p131-135.

Damage

Cumulative Damage to Bridge Concrete Deck Slabs Due to Vehicle Loading, Thomas E. Boothby and Jeffrey A. Laman, BE Feb. 99, p80-82.

Data collection

Automated Data Acquisition for Bridge Inspection, Hazem M. Elzarka, Lansford C. Bell and Richard L. Floyd, BE Nov. 99, p258-262.

Load Distribution and Impact Factors for I-Girder Bridges, Sangjin Kim and Andrzej S. Nowak, BE Aug. 97, p97-104.

Data collection systems

Automated Data Acquisition for Bridge Inspection, Hazem M. Elzarka, Lansford C. Bell and Richard L. Floyd, BE Nov. 99, p258-262.

Deflection

Simply Supported Curved Composite Cellular Bridges: Simplified Design Method, Khaled Sennah and John B. Kennedy, BE May 99, p85-94.

Design

Simply Supported Curved Composite Cellular Bridges: Simplified Design Method, Khaled Sennah and John B. Kennedy, BE May 99, p85-94.

Design criteria

Practitioners' Forum, Muthiah Kasi and Harold R. Sandberg, BE Aug. 97, p70-72.

Diaphragms

Removal of Diaphragms from Three Span–Steel Girder Bridge, J. M. Stallings, T. E. Cousins and T. E. Stafford, BE Feb. 99, p63-70.

Dimensional analysis

Northern Red Oak Glued-Laminated Timber Bridge, Harvey B. Manbeck, Paul R. Blankenhorn, John J. Janowiak, Ray W. Witmer, Jr., Peter Labosky, Jr., Patrick S. Powers and Perry D. Schram, BE Nov. 99, p269-278.

Displacement

Analytical Model of Curved I-Girder Web Panels Subjected to Bending, James S. Davidson, Scott R. Ballance and Chai H. Yoo, BE Aug. 99, p204-212.

Finite Displacement Behavior of Curved I-Girder Webs Subjected to Bending, James S. Davidson, Scott R. Ballance and Chai H. Yoo, BE Aug. 99, p213-220.

Ductility

Cable Safety Factors for Four Suspension Bridges, Roger Q. Haight, David P. Billington and Dyab Khazem, BE Nov. 97, p157-167.

Dynamics

Dynamic Load Allowance for Through-Truss Bridges, J. A. Laman, J. S. Pechar and T. E. Boothby, BE Nov. 99, p231-241.

Earthquake engineering

Elastic-Plastic Seismic Behaviors of Long Span Cable-Stayed Bridges, Wei-Xin Ren and Makoto Obata, BE Aug. 99, p194-203.

Earthquake resistant structures

Analytical Evaluation of Retrofit Strategies for Multicolumn Bridges, Yi Zhang, William F. Cofer and David I. McLean, BE May 99, p143-150.

Elastoplasticity

Elastic-Plastic Seismic Behaviors of Long Span Cable-Stayed Bridges, Wei-Xin Ren and Makoto Obata, BE Aug. 99, p194-203.

Ultimate Behavior of Long-Span Cable-Stayed Bridges, Wei-Xin Ren, BE Feb. 99, p30-37.

Energy methods

Ultimate Load Capacity of Cable-Stayed Bridges, Ying Xi and J. S. Kuang, BE Feb. 99, p14-22.

Evaluation

Dynamic Load Allowance for Through-Truss Bridges, J. A. Laman, J. S. Pechar and T. E. Boothby, BE Nov. 99, p231-241.

Evaporation

Investigation of Cracking in Concrete Bridge Decks at Early Ages, Mohsen A. Issa, P.E., BE May 99, p116-124.

Failures

Practitioners' Forum, Muthiah Kasi and Harold R. Sandberg, BE Aug. 97, p70-72.

Fatigue

Cumulative Damage to Bridge Concrete Deck Slabs Due to Vehicle Loading, Thomas E. Boothby and Jeffrey A. Laman, BE Feb. 99, p80-82.

Performance of Bridge Timber Ties under Static and Fatigue Loading, Khaled A. Soudki, Sami H. Rizkalla and A. Shakoor Uppal, BE Nov. 99, p263-268.

Removal of Diaphragms from Three Span–Steel Girder Bridge, J. M. Stallings, T. E. Cousins and T. E. Stafford, BE Feb. 99, p63-70.

Field tests

Field Performance of Three Stress-Laminated Southern Pine Timber Bridges, Nur Yazdani, P.E., Joy Kadner, P.E., James A. Kainz and Michael A. Ritter, BE Nov. 99, p279-286.

Load Distribution and Impact Factors for I-Girder Bridges, Sangjin Kim and Andrzej S. Nowak, BE Aug. 97, p97-104.

Load Distribution of Existing Solid Slab Bridges Based on Field Tests, A. Amer, M. Arockiasamy and M. Shahawy, BE Aug. 99, p189-193.

Short-Term Strain Monitoring of Bridge Structures, Richard R. Sartor, Michael P. Culmo, P.E. and John T. DeWolf, P.E., BE Aug. 99, p157-164.

Finite element analysis

Nonlinear Analysis and Simulation of Construction of Cable-Stayed Bridges, Praveen Reddy, Jamshid Ghaboussi and Neil M. Hawkins, BE Nov. 99, p249-257.

Finite element method

Deck Slab Stresses in Integral Abutment Bridges, Shehab Mourad and Sami W. Tabsh, BE May 99, p125-130.

Effect of Multilanes on Wheel Load Distribution in Steel Girder Bridges, Mounir E. Mabsout, Kassim M. Tarhini, Gerald R. Frederick and Abbas Kesserwan, BE May 99, p99-106.

Flutter and Buffeting Analysis. I: Finite-Element and RPE Solution, Chun S. Cai, Pedro Albrecht and Harold R. Bosch, BE Aug. 99, p174-180.

Flutter and Buffeting Analysis. II: Luling and Deer Isle Bridges, Chun S. Cai, Pedro Albrecht and Harold R. Bosch, BE Aug. 99, p181-188.

Load Distribution Factors for Composite Multicell Box Girder Bridges, Khaled M. Sennah and John B. Kennedy, BE Feb. 99, p71-78.

Number of Cable Effects on Buckling Analysis of Cable-Stayed Bridges, Yang-Cheng Wang, BE Nov. 99, p242-248.

Simply Supported Curved Composite Cellular Bridges: Simplified Design Method, Khaled Sennah and John B. Kennedy, BE May 99, p85-94.

Finite elements

Finite Displacement Behavior of Curved I-Girder Webs Subjected to Bending, James S. Davidson, Scott R. Ballance and Chai H. Yoo, BE Aug. 99, p213-220.

Flanges

Practitioners' Forum, Muthiah Kasi and Harold R. Sandberg, BE Aug. 97, p70-72.

Flutter
Estimates of Skew Wind Speeds for Bridge Flutter, Robert H. Scanlan, BE May 99, p95-98.
Flutter and Buffeting Analysis. I: Finite-Element and RPE Solution, Chun S. Cai, Pedro Albrecht and Harold R. Bosch, BE Aug. 99, p174-180.
Flutter and Buffeting Analysis. II: Luling and Deer Isle Bridges, Chun S. Cai, Pedro Albrecht and Harold R. Bosch, BE Aug. 99, p181-188.

Geometric nonlinearity
Ultimate Behavior of Long-Span Cable-Stayed Bridges, Wei-Xin Ren, BE Feb. 99, p30-37.

Girders
Practitioners' Forum, Muthiah Kasi and Harold R. Sandberg, BE Aug. 97, p70-72.

Glued-laminated timber
Northern Red Oak Glued-Laminated Timber Bridge, Harvey B. Manbeck, Paul R. Blankenhorn, John J. Janowiak, Ray W. Witmer, Jr., Peter Labosky, Jr., Patrick S. Powers and Perry D. Schram, BE Nov. 99, p269-278.
Partial Composite Action in Hardwood Glued-Laminated T-Beams, Ray W. Witmer, Jr., Harvey B. Manbeck and John J. Janowiak, BE Feb. 99, p23-29.

Grillages
Load Distribution of Existing Solid Slab Bridges Based on Field Tests, A. Amer, M. Arockiasamy and M. Shahawy, BE Aug. 99, p189-193.

Historic sites
Validated Analysis of Wheeling Suspension Bridge, Constantine C. Spyrakos, Emory L. Kemp and Ramesh Venkatareddy, BE Feb. 99, p1-7.

Impact
Load Distribution and Impact Factors for I-Girder Bridges, Sangjin Kim and Andrzej S. Nowak, BE Aug. 97, p97-104.

In situ tests
Validated Analysis of Wheeling Suspension Bridge, Constantine C. Spyrakos, Emory L. Kemp and Ramesh Venkatareddy, BE Feb. 99, p1-7.

Incremental launching
Prestressing Schemes for Incrementally Launched Bridges, Marco Rosignoli, BE May 99, p107-115.

Laminates
Field Performance of Three Stress-Laminated Southern Pine Timber Bridges, Nur Yazdani, P.E., Joy Kadner, P.E., James A. Kainz and Michael A. Ritter, BE Nov. 99, p279-286.

Layout
Wrinkled Membranes and Cable-Stayed Bridges, Gianni F. Royer-Carfagni, BE Feb. 99, p56-62.

Limit states
Serviceability Design of Prestressed Concrete Bridges, André Picard and Bruno Massicotte, BE Feb. 99, p48-55.

Live loads
Deck Slab Stresses in Integral Abutment Bridges, Shehab Mourad and Sami W. Tabsh, BE May 99, p125-130.
Influence of Deck Material on Response of Cable-Stayed Bridges to Live Loads, Hany W. George, BE May 99, p136-142.
Northern Red Oak Glued-Laminated Timber Bridge, Harvey B. Manbeck, Paul R. Blankenhorn, John J. Janowiak, Ray W. Witmer, Jr., Peter Labosky, Jr., Patrick S. Powers and Perry D. Schram, BE Nov. 99, p269-278.

Load distribution
Deck Slab Stresses in Integral Abutment Bridges, Shehab Mourad and Sami W. Tabsh, BE May 99, p125-130.
Effect of Multilanes on Wheel Load Distribution in Steel Girder Bridges, Mounir E. Mabsout, Kassim M. Tarhini, Gerald R. Frederick and Abbas Kesserwan, BE May 99, p99-106.
Load Distribution and Impact Factors for I-Girder Bridges, Sangjin Kim and Andrzej S. Nowak, BE Aug. 97, p97-104.
Load Distribution Factors for Composite Multicell Box Girder Bridges, Khaled M. Sennah and John B. Kennedy, BE Feb. 99, p71-78.
Load Distribution of Existing Solid Slab Bridges Based on Field Tests, A. Amer, M. Arockiasamy and M. Shahawy, BE Aug. 99, p189-193.
Performance of Bridge Timber Ties under Static and Fatigue Loading, Khaled A. Soudki, Sami H. Rizkalla and A. Shakoor Uppal, BE Nov. 99, p263-268.
Shear and Reaction Distributions in Continuous Skew Composite Bridges, Tarek Ebeido and John B. Kennedy, BE Nov. 96, p155-165.

Load tests
Determination of Slab Participation from Weigh-In-Motion Bridge Testing, Maged Elhelbawey, Chung C. Fu, M. A. Sahin and David R. Schelling, BE Aug. 99, p165-173.
Dynamic Load Allowance for Through-Truss Bridges, J. A. Laman, J. S. Pechar and T. E. Boothby, BE Nov. 99, p231-241.
Northern Red Oak Glued-Laminated Timber Bridge, Harvey B. Manbeck, Paul R. Blankenhorn, John J. Janowiak, Ray W. Witmer, Jr., Peter Labosky, Jr., Patrick S. Powers and Perry D. Schram, BE Nov. 99, p269-278.
Validated Analysis of Wheeling Suspension Bridge, Constantine C. Spyrakos, Emory L. Kemp and Ramesh Venkatareddy, BE Feb. 99, p1-7.

Loading
Cumulative Damage to Bridge Concrete Deck Slabs Due to Vehicle Loading, Thomas E. Boothby and Jeffrey A. Laman, BE Feb. 99, p80-82.

Materials, properties
Effect of Material Properties on Cracking in Bridge Decks, Tony R. Schmitt and David Darwin, BE Feb. 99, p8-13.

Materials testing
Influence of Deck Material on Response of Cable-Stayed Bridges to Live Loads, Hany W. George, BE May 99, p136-142.

Moment distribution
Simply Supported Curved Composite Cellular Bridges: Simplified Design Method, Khaled Sennah and John B. Kennedy, BE May 99, p85-94.

Monitoring
Short-Term Strain Monitoring of Bridge Structures, Richard R. Sartor, Michael P. Culmo, P.E. and John T. DeWolf, P.E., BE Aug. 99, p157-164.

Nonlinear analysis
Finite Displacement Behavior of Curved I-Girder Webs Subjected to Bending, James S. Davidson, Scott R. Ballance and Chai H. Yoo, BE Aug. 99, p213-220.

Nonlinear response
Elastic-Plastic Seismic Behaviors of Long Span Cable-Stayed Bridges, Wei-Xin Ren and Makoto Obata, BE Aug. 99, p194-203.

Numerical analysis
Number of Cable Effects on Buckling Analysis of Cable-Stayed Bridges, Yang-Cheng Wang, BE Nov. 99, p242-248.

Performance evaluation
Field Performance of Three Stress-Laminated Southern Pine Timber Bridges, Nur Yazdani, P.E., Joy Kadner, P.E., James A. Kainz and Michael A. Ritter, BE Nov. 99, p279-286.

Permits
Innovative Method for Evaluating Overweight Vehicle Permits, Karen C. Chou, James H. Deatherage, Terry D. Leatherwood and Amjad J. Khayat, BE Aug. 99, p221-227.

Pine wood
Field Performance of Three Stress-Laminated Southern Pine Timber Bridges, Nur Yazdani, P.E., Joy Kadner, P.E., James A. Kainz and Michael A. Ritter, BE Nov. 99, p279-286.

Plastic deformation
Analytical Evaluation of Retrofit Strategies for Multicolumn Bridges, Yi Zhang, William F. Cofer and David I. McLean, BE May 99, p143-150.

Plate girders
Analytical Model of Curved I-Girder Web Panels Subjected to Bending, James S. Davidson, Scott R. Ballance and Chai H. Yoo, BE Aug. 99, p204-212.
Finite Displacement Behavior of Curved I-Girder Webs Subjected to Bending, James S. Davidson, Scott R. Ballance and Chai H. Yoo, BE Aug. 99, p213-220.

Prestressing
Prestressing Schemes for Incrementally Launched Bridges, Marco Rosignoli, BE May 99, p107-115.
Strengthening by Means of External Prestressing, M. A. Pisani, BE May 99, p131-135.

Prototype tests
Flutter and Buffeting Analysis. II: Luling and Deer Isle Bridges, Chun S. Cai, Pedro Albrecht and Harold R. Bosch, BE Aug. 99, p181-188.

Railroad ties
Performance of Bridge Timber Ties under Static and Fatigue Loading, Khaled A. Soudki, Sami H. Rizkalla and A. Shakoor Uppal, BE Nov. 99, p263-268.

Random processes
Flutter and Buffeting Analysis. I: Finite-Element and RPE Solution, Chun S. Cai, Pedro Albrecht and Harold R. Bosch, BE Aug. 99, p174-180.
Flutter and Buffeting Analysis. II: Luling and Deer Isle Bridges, Chun S. Cai, Pedro Albrecht and Harold R. Bosch, BE Aug. 99, p181-188.

Ratings
Dynamic Load Allowance for Through-Truss Bridges, J. A. Laman, J. S. Pechar and T. E. Boothby, BE Nov. 99, p231-241.

Rehabilitation
Strengthening by Means of External Prestressing, M. A. Pisani, BE May 99, p131-135.

Repairing
Short-Term Strain Monitoring of Bridge Structures, Richard R. Sartor, Michael P. Culmo, P.E. and John T. DeWolf, P.E., BE Aug. 99, p157-164.

Retrofitting
Analytical Evaluation of Retrofit Strategies for Multicolumn Bridges, Yi Zhang, William F. Cofer and David I. McLean, BE May 99, p143-150.

Safety
Practitioners' Forum, Muthiah Kasi and Harold R. Sandberg, BE Aug. 97, p70-72.

Safety factors
Cable Safety Factors for Four Suspension Bridges, Roger Q. Haight, David P. Billington and Dyab Khazem, BE Nov. 97, p157-167.

Seismic analysis
Validated Analysis of Wheeling Suspension Bridge, Constantine C. Spyrakos, Emory L. Kemp and Ramesh Venkatareddy, BE Feb. 99, p1-7.

Seismic response
Elastic-Plastic Seismic Behaviors of Long Span Cable-Stayed Bridges, Wei-Xin Ren and Makoto Obata, BE Aug. 99, p194-203.

Serviceability
Serviceability Design of Prestressed Concrete Bridges, André Picard and Bruno Massicotte, BE Feb. 99, p48-55.

Shear
Shear and Reaction Distributions in Continuous Skew Composite Bridges, Tarek Ebeido and John B. Kennedy, BE Nov. 96, p155-165.

Shear stress
Serviceability Design of Prestressed Concrete Bridges, André Picard and Bruno Massicotte, BE Feb. 99, p48-55.

Shrinkage
Investigation of Cracking in Concrete Bridge Decks at Early Ages, Mohsen A. Issa, P.E., BE May 99, p116-124.

Simulation
Nonlinear Analysis and Simulation of Construction of Cable-Stayed Bridges, Praveen Reddy, Jamshid Ghaboussi and Neil M. Hawkins, BE Nov. 99, p249-257.

Skew bridges
Shear and Reaction Distributions in Continuous Skew Composite Bridges, Tarek Ebeido and John B. Kennedy, BE Nov. 96, p155-165.

Skewness
Estimates of Skew Wind Speeds for Bridge Flutter, Robert H. Scanlan, BE May 99, p95-98.

Slabs
Determination of Slab Participation from Weigh-In-Motion Bridge Testing, Maged Elhelbawey, Chung C. Fu, M. A. Sahin and David R. Schelling, BE Aug. 99, p165-173.
Load Distribution of Existing Solid Slab Bridges Based on Field Tests, A. Amer, M. Arockiasamy and M. Shahawy, BE Aug. 99, p189-193.

Slump

Effect of Material Properties on Cracking in Bridge Decks, Tony R. Schmitt and David Darwin, BE Feb. 99, p8-13.

Splicing

Practitioners' Forum, Muthiah Kasi and Harold R. Sandberg, BE Aug. 97, p70-72.

Stability criteria

Estimates of Skew Wind Speeds for Bridge Flutter, Robert H. Scanlan, BE May 99, p95-98.

State-of-the-art reviews

Horizontally Curved Steel I-Girders State-of-the-Art Analysis Methods, A. Zureick and R. Naqib, BE Feb. 99, p38-47.

Steel

Horizontally Curved Steel I-Girders State-of-the-Art Analysis Methods, A. Zureick and R. Naqib, BE Feb. 99, p38-47.

Removal of Diaphragms from Three Span–Steel Girder Bridge, J. M. Stallings, T. E. Cousins and T. E. Stafford, BE Feb. 99, p63-70.

Steel decks

Influence of Deck Material on Response of Cable-Stayed Bridges to Live Loads, Hany W. George, BE May 99, p136-142.

Stiffness

Load Distribution Factors for Composite Multicell Box Girder Bridges, Khaled M. Sennah and John B. Kennedy, BE Feb. 99, p71-78.

Partial Composite Action in Hardwood Glued-Laminated T-Beams, Ray W. Witmer, Jr., Harvey B. Manbeck and John J. Janowiak, BE Feb. 99, p23-29.

Strain

Load Distribution and Impact Factors for I-Girder Bridges, Sangjin Kim and Andrzej S. Nowak, BE Aug. 97, p97-104.

Strength

Strengthening by Means of External Prestressing, M. A. Pisani, BE May 99, p131-135.

Stress

Field Performance of Three Stress-Laminated Southern Pine Timber Bridges, Nur Yazdani, P.E., Joy Kadner, P.E., James A. Kainz and Michael A. Ritter, BE Nov. 99, p279-286.

Practitioners' Forum, Muthiah Kasi and Harold R. Sandberg, BE Aug. 97, p70-72.

Removal of Diaphragms from Three Span–Steel Girder Bridge, J. M. Stallings, T. E. Cousins and T. E. Stafford, BE Feb. 99, p63-70.

Structural analysis

Analytical Evaluation of Retrofit Strategies for Multicolumn Bridges, Yi Zhang, William F. Cofer and David I. McLean, BE May 99, p143-150.

Load Distribution of Existing Solid Slab Bridges Based on Field Tests, A. Amer, M. Arockiasamy and M. Shahawy, BE Aug. 99, p189-193.

Structural behavior

Dynamic Load Allowance for Through-Truss Bridges, J. A. Laman, J. S. Pechar and T. E. Boothby, BE Nov. 99, p231-241.

Self-Anchored Suspension Bridges, John A. Ochsendorf and David P. Billington, BE Aug. 99, p151-156.

Structural dynamics

Elastic-Plastic Seismic Behaviors of Long Span Cable-Stayed Bridges, Wei-Xin Ren and Makoto Obata, BE Aug. 99, p194-203.

Structural response

Shear and Reaction Distributions in Continuous Skew Composite Bridges, Tarek Ebeido and John B. Kennedy, BE Nov. 96, p155-165.

Structural stability

Ultimate Behavior of Long-Span Cable-Stayed Bridges, Wei-Xin Ren, BE Feb. 99, p30-37.

Tests

Cable Safety Factors for Four Suspension Bridges, Roger Q. Haight, David P. Billington and Dyab Khazem, BE Nov. 97, p157-167.

Timber construction

Partial Composite Action in Hardwood Glued-Laminated T-Beams, Ray W. Witmer, Jr., Harvey B. Manbeck and John J. Janowiak, BE Feb. 99, p23-29.

Timbers

Performance of Bridge Timber Ties under Static and Fatigue Loading, Khaled A. Soudki, Sami H. Rizkalla and A. Shakoor Uppal, BE Nov. 99, p263-268.

Torsion

Load Distribution Factors for Composite Multicell Box Girder Bridges, Khaled M. Sennah and John B. Kennedy, BE Feb. 99, p71-78.

Two-dimensional models

Analytical Evaluation of Retrofit Strategies for Multicolumn Bridges, Yi Zhang, William F. Cofer and David I. McLean, BE May 99, p143-150.

Ultimate loads

Ultimate Behavior of Long-Span Cable-Stayed Bridges, Wei-Xin Ren, BE Feb. 99, p30-37.

Ultimate Load Capacity of Cable-Stayed Bridges, Ying Xi and J. S. Kuang, BE Feb. 99, p14-22.

Vehicle safety

Innovative Method for Evaluating Overweight Vehicle Permits, Karen C. Chou, James H. Deatherage, Terry D. Leatherwood and Amjad J. Khayat, BE Aug. 99, p221-227.

Vehicles

Innovative Method for Evaluating Overweight Vehicle Permits, Karen C. Chou, James H. Deatherage, Terry D. Leatherwood and Amjad J. Khayat, BE Aug. 99, p221-227.

Vehicular traffic

Cumulative Damage to Bridge Concrete Deck Slabs Due to Vehicle Loading, Thomas E. Boothby and Jeffrey A. Laman, BE Feb. 99, p80-82.

Webs

Analytical Model of Curved I-Girder Web Panels Subjected to Bending, James S. Davidson, Scott R. Ballance and Chai H. Yoo, BE Aug. 99, p204-212.

Finite Displacement Behavior of Curved I-Girder Webs Subjected to Bending, James S. Davidson, Scott R. Ballance and Chai H. Yoo, BE Aug. 99, p213-220.

Weight

Innovative Method for Evaluating Overweight Vehicle Permits, Karen C. Chou, James H. Deatherage, Terry D. Leatherwood and Amjad J. Khayat, BE Aug. 99, p221-227.

Wheels

Effect of Multilanes on Wheel Load Distribution in Steel Girder Bridges, Mounir E. Mabsout, Kassim M. Tarhini, Gerald R. Frederick and Abbas Kesserwan, BE May 99, p99-106.

Wind forces

Estimates of Skew Wind Speeds for Bridge Flutter, Robert H. Scanlan, BE May 99, p95-98.

Flutter and Buffeting Analysis. II: Luling and Deer Isle Bridges, Chun S. Cai, Pedro Albrecht and Harold R. Bosch, BE Aug. 99, p181-188.

Wind speed

Estimates of Skew Wind Speeds for Bridge Flutter, Robert H. Scanlan, BE May 99, p95-98.

Wood preservatives

Field Performance of Three Stress-Laminated Southern Pine Timber Bridges, Nur Yazdani, P.E., Joy Kadner, P.E., James A. Kainz and Michael A. Ritter, BE Nov. 99, p279-286.

Northern Red Oak Glued-Laminated Timber Bridge, Harvey B. Manbeck, Paul R. Blankenhorn, John J. Janowiak, Ray W. Witmer, Jr., Peter Labosky, Jr., Patrick S. Powers and Perry D. Schram, BE Nov. 99, p269-278.

AUTHOR INDEX

Abrahams, Michael J.
disc. (of Practitioners' Forum, by Muthiah Kasi and Harold R. Sandberg, BE Aug. 97, p70-72) with Debra Moolin, BE Aug. 99, p229-230

Albrecht, Pedro
see Cai, Chun S., BE Aug. 99, p174-180
see Cai, Chun S., BE Aug. 99, p181-188

Amer, A.
Load Distribution of Existing Solid Slab Bridges Based on Field Tests, with M. Arockiasamy and M. Shahawy, BE Aug. 99, p189-193

Arockiasamy, M.
see Amer, A., BE Aug. 99, p189-193

Ballance, Scott R.
see Davidson, James S., BE Aug. 99, p204-212
see Davidson, James S., BE Aug. 99, p213-220

Bell, Lansford C.
see Elzarka, Hazem M., BE Nov. 99, p258-262

Billington, David P.
see Haight, Roger Q., BE Nov. 97, p157-167
see Ochsendorf, John A., BE Aug. 99, p151-156

Blankenhorn, Paul R.
see Manbeck, Harvey B., BE Nov. 99, p269-278

Boothby, T. E.
see Laman, J. A., BE Nov. 99, p231-241

Boothby, Thomas E.
Cumulative Damage to Bridge Concrete Deck Slabs Due to Vehicle Loading, with Jeffrey A. Laman, BE Feb. 99, p80-82

Bosch, Harold R.
see Cai, Chun S., BE Aug. 99, p174-180
see Cai, Chun S., BE Aug. 99, p181-188

Cai, Chun S.
Flutter and Buffeting Analysis. I: Finite-Element and RPE Solution, with Pedro Albrecht and Harold R. Bosch, BE Aug. 99, p174-180
Flutter and Buffeting Analysis. II: Luling and Deer Isle Bridges, with Pedro Albrecht and Harold R. Bosch, BE Aug. 99, p181-188

Chou, Karen C.
Innovative Method for Evaluating Overweight Vehicle Permits, with James H. Deatherage, Terry D. Leatherwood and Amjad J. Khayat, BE Aug. 99, p221-227

Cofer, William F.
see Zhang, Yi, BE May 99, p143-150

Cousins, T. E.
see Stallings, J. M., BE Feb. 99, p63-70

Culmo, Michael P., P.E.
see Sartor, Richard R., BE Aug. 99, p157-164

Darwin, David
see Schmitt, Tony R., BE Feb. 99, p8-13

Davidson, James S.
Analytical Model of Curved I-Girder Web Panels Subjected to Bending, with Scott R. Ballance and Chai H. Yoo, BE Aug. 99, p204-212
Finite Displacement Behavior of Curved I-Girder Webs Subjected to Bending, with Scott R. Ballance and Chai H. Yoo, BE Aug. 99, p213-220

Deatherage, James H.
see Chou, Karen C., BE Aug. 99, p221-227

DeWolf, John T., P.E.
see Sartor, Richard R., BE Aug. 99, p157-164

Ebeido, Tarek
Shear and Reaction Distributions in Continuous Skew Composite Bridges, with John B. Kennedy, BE Nov. 96, p155-165
disc: Bruce W. Golley, BE May 98, p91-92
clo: BE May 98, p92
err: BE Feb. 99, p83

Elhelbawey, Maged
Determination of Slab Participation from Weigh-In-Motion Bridge Testing, with Chung C. Fu, M. A. Sahin and David R. Schelling, BE Aug. 99, p165-173

Elzarka, Hazem M.
Automated Data Acquisition for Bridge Inspection, with Lansford C. Bell and Richard L. Floyd, BE Nov. 99, p258-262

Floyd, Richard L.
see Elzarka, Hazem M., BE Nov. 99, p258-262

Frederick, Gerald R.
see Mabsout, Mounir E., BE May 99, p99-106

Fu, Chung C.
see Elhelbawey, Maged, BE Aug. 99, p165-173

George, Hany W.
Influence of Deck Material on Response of Cable-Stayed Bridges to Live Loads, BE May 99, p136-142

Ghaboussi, Jamshid
see Reddy, Praveen, BE Nov. 99, p249-257

Golley, Bruce W.
disc. (of Shear and Reaction Distributions in Continuous Skew Composite Bridges, by Tarek Ebeido and John B. Kennedy, BE Nov. 96, p155-165), BE May 98, p91-92

Haight, Roger Q.
Cable Safety Factors for Four Suspension Bridges, with David P. Billington and Dyab Khazem, BE Nov. 97, p157-167
disc: Robert J. Perry, BE Nov. 99, p288
disc: Louis G. Silano, BE Nov. 99, p288
clo: BE Nov. 99, p288-289

Hawkins, Neil M.
see Reddy, Praveen, BE Nov. 99, p249-257

Issa, Mohsen A., P.E.
Investigation of Cracking in Concrete Bridge Decks at Early Ages, BE May 99, p116-124

Janowiak, John J.
see Manbeck, Harvey B., BE Nov. 99, p269-278
see Witmer, Ray W., Jr., BE Feb. 99, p23-29

Kadner, Joy, P.E.
see Yazdani, Nur, P.E., BE Nov. 99, p279-286

Kainz, James A.
see Yazdani, Nur, P.E., BE Nov. 99, p279-286

Kasi, Muthiah
Practitioners' Forum, with Harold R. Sandberg, BE Aug. 97, p70-72
disc: Michael J. Abrahams and Debra Moolin, BE Aug. 99, p229-230
clo: BE Aug. 99, p230

Kemp, Emory L.
see Spyrakos, Constantine C., BE Feb. 99, p1-7

Kennedy, John B.
see Ebeido, Tarek, BE Nov. 96, p155-165
see Sennah, Khaled, BE May 99, p85-94
see Sennah, Khaled M., BE Feb. 99, p71-78

Kesserwan, Abbas
see Mabsout, Mounir E., BE May 99, p99-106

Khayat, Amjad J.
see Chou, Karen C., BE Aug. 99, p221-227

Khazem, Dyab
see Haight, Roger Q., BE Nov. 97, p157-167

Kim, Sangjin
Load Distribution and Impact Factors for I-Girder Bridges, with Andrzej S. Nowak, BE Aug. 97, p97-104
disc: Jeffrey A. Laman, BE Nov. 99, p289-290
clo: BE Nov. 99, p290

Kuang, J. S.
see Xi, Ying, BE Feb. 99, p14-22

Labosky, Peter, Jr.
see Manbeck, Harvey B., BE Nov. 99, p269-278

Laman, J. A.
Dynamic Load Allowance for Through-Truss Bridges, with J. S. Pechar and T. E. Boothby, BE Nov. 99, p231-241

Laman, Jeffrey A.
disc. (of Load Distribution and Impact Factors for I-Girder Bridges, by Sangjin Kim and Andrzej S. Nowak, BE Aug. 97, p97-104), BE Nov. 99, p289-290
see Boothby, Thomas E., BE Feb. 99, p80-82

Leatherwood, Terry D.
see Chou, Karen C., BE Aug. 99, p221-227

Mabsout, Mounir E.
Effect of Multilanes on Wheel Load Distribution in Steel Girder Bridges, with Kassim M. Tarhini, Gerald R. Frederick and Abbas Kesserwan, BE May 99, p99-106

Manbeck, Harvey B.
Northern Red Oak Glued-Laminated Timber Bridge, with Paul R. Blankenhorn, John J. Janowiak, Ray W. Witmer, Jr., Peter Labosky, Jr., Patrick S. Powers and Perry D. Schram, BE Nov. 99, p269-278
see Witmer, Ray W., Jr., BE Feb. 99, p23-29

Massicotte, Bruno
see Picard, André, BE Feb. 99, p48-55

McLean, David I.
see Zhang, Yi, BE May 99, p143-150

Moolin, Debra
see Abrahams, Michael J., (disc), BE Aug. 97, p70-72

Mourad, Shehab
Deck Slab Stresses in Integral Abutment Bridges, with Sami W. Tabsh, BE May 99, p125-130

Naqib, R.
see Zureick, A., BE Feb. 99, p38-47

Nowak, Andrzej S.
see Kim, Sangjin, BE Aug. 97, p97-104

Obata, Makoto
see Ren, Wei-Xin, BE Aug. 99, p194-203

Ochsendorf, John A.
Self-Anchored Suspension Bridges, with David P. Billington, BE Aug. 99, p151-156

Pechar, J. S.
see Laman, J. A., BE Nov. 99, p231-241

Perry, Robert J.
disc. (of Cable Safety Factors for Four Suspension Bridges, by Roger Q. Haight, David P. Billington and Dyab Khazem, BE Nov. 97, p157-167), BE Nov. 99, p288

Picard, André
Serviceability Design of Prestressed Concrete Bridges, with Bruno Massicotte, BE Feb. 99, p48-55

Pisani, M. A.
Strengthening by Means of External Prestressing, BE May 99, p131-135

Powers, Patrick S.
see Manbeck, Harvey B., BE Nov. 99, p269-278

Reddy, Praveen
Nonlinear Analysis and Simulation of Construction of Cable-Stayed Bridges, with Jamshid Ghaboussi and Neil M. Hawkins, BE Nov. 99, p249-257

Ren, Wei-Xin
Elastic-Plastic Seismic Behaviors of Long Span Cable-Stayed Bridges, with Makoto Obata, BE Aug. 99, p194-203
Ultimate Behavior of Long-Span Cable-Stayed Bridges, BE Feb. 99, p30-37

Ritter, Michael A.
see Yazdani, Nur, P.E., BE Nov. 99, p279-286

Rizkalla, Sami H.
see Soudki, Khaled A., BE Nov. 99, p263-268

Rosignoli, Marco
Prestressing Schemes for Incrementally Launched Bridges, BE May 99, p107-115

Royer-Carfagni, Gianni F.
Wrinkled Membranes and Cable-Stayed Bridges, BE Feb. 99, p56-62

Sahin, M. A.
see Elhelbawey, Maged, BE Aug. 99, p165-173

Sandberg, Harold R.
see Kasi, Muthiah, BE Aug. 97, p70-72

Sartor, Richard R.
Short-Term Strain Monitoring of Bridge Structures, with Michael P. Culmo, P.E. and John T. DeWolf, P.E., BE Aug. 99, p157-164

Scanlan, Robert H.
Estimates of Skew Wind Speeds for Bridge Flutter, BE May 99, p95-98

Schelling, David R.
see Elhelbawey, Maged, BE Aug. 99, p165-173

Schmitt, Tony R.
Effect of Material Properties on Cracking in Bridge Decks, with David Darwin, BE Feb. 99, p8-13

Schram, Perry D.
see Manbeck, Harvey B., BE Nov. 99, p269-278

Sennah, Khaled
Simply Supported Curved Composite Cellular Bridges: Simplified Design Method, with John B. Kennedy, BE May 99, p85-94

Sennah, Khaled M.
Load Distribution Factors for Composite Multicell Box Girder Bridges, with John B. Kennedy, BE Feb. 99, p71-78

Shahawy, M.
see Amer, A., BE Aug. 99, p189-193

Silano, Louis G.
disc. (of Cable Safety Factors for Four Suspension Bridges, by Roger Q. Haight, David P. Billington and Dyab Khazem, BE Nov. 97, p157-167), BE Nov. 99, p288

Soudki, Khaled A.
Performance of Bridge Timber Ties under Static and Fatigue Loading, with Sami H. Rizkalla and A. Shakoor Uppal, BE Nov. 99, p263-268

Spyrakos, Constantine C.
Validated Analysis of Wheeling Suspension Bridge, with Emory L. Kemp and Ramesh Venkatareddy, BE Feb. 99, p1-7

Stafford, T. E.
see Stallings, J. M., BE Feb. 99, p63-70

Stallings, J. M.
Removal of Diaphragms from Three Span–Steel Girder Bridge, with T. E. Cousins and T. E. Stafford, BE Feb. 99, p63-70

Tabsh, Sami W.
see Mourad, Shehab, BE May 99, p125-130

Tarhini, Kassim M.
see Mabsout, Mounir E., BE May 99, p99-106

Uppal, A. Shakoor
see Soudki, Khaled A., BE Nov. 99, p263-268

Venkatareddy, Ramesh
see Spyrakos, Constantine C., BE Feb. 99, p1-7

Wang, Yang-Cheng
Number of Cable Effects on Buckling Analysis of Cable-Stayed Bridges, BE Nov. 99, p242-248

Witmer, Ray W., Jr.
Partial Composite Action in Hardwood Glued-Laminated T-Beams, with Harvey B. Manbeck and John J. Janowiak, BE Feb. 99, p23-29
see Manbeck, Harvey B., BE Nov. 99, p269-278

Xi, Ying
Ultimate Load Capacity of Cable-Stayed Bridges, with J. S. Kuang, BE Feb. 99, p14-22

Yazdani, Nur, P.E.
Field Performance of Three Stress-Laminated Southern Pine Timber Bridges, with Joy Kadner, P.E., James A. Kainz and Michael A. Ritter, BE Nov. 99, p279-286

Yoo, Chai H.
see Davidson, James S., BE Aug. 99, p204-212
see Davidson, James S., BE Aug. 99, p213-220

Zhang, Yi
Analytical Evaluation of Retrofit Strategies for Multicolumn Bridges, with William F. Cofer and David I. McLean, BE May 99, p143-150

Zureick, A.
Horizontally Curved Steel I-Girders State-of-the-Art Analysis Methods, with R. Naqib, BE Feb. 99, p38-47